

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 05078762
PUBLICATION DATE : 30-03-93

APPLICATION DATE : 23-05-91
APPLICATION NUMBER : 03149816

APPLICANT : SUMITOMO LIGHT METAL IND LTD;

INVENTOR : SHIBUE KAZUHISA;

INT.CL. : C22C 1/05 C22C 14/00 C22C 32/00

TITLE : TIAL-BASED COMPOSITE MATERIAL HAVING EXCELLENT STRENGTH AND ITS PRODUCTION

ABSTRACT : PURPOSE: To provide a composite material based on a TiAl intermetallic compd. and having fine grains, no internal defect and excellent strength by a reactive sintering method.

CONSTITUTION: A powdery Ti-Al mixture having a compsn. consisting of 35-50 atomic % Al and the balance Ti is prepd. and particles of one or more among TiB_2 , Al_2O_3 and SiC having 0.05-20 μm average particle diameter are added to the mixture by $\leq 20 vol. \%$. They are mixed and sintered by a reactive sintering method to obtain the objective TiAl-based composite material.

COPYRIGHT: (C)1993,JPO&Japio